



U.S. Department
of Transportation

National Highway
Traffic Safety
Administration

Part 573 Safety Recall Report

25E035

Manufacturer Name: BorgWarner

Submission Date: May 16, 2025

NHTSA Recall No.: 25E035

Manufacturer Recall No.:

Manufacturer Information

Population

Manufacturer Name: BorgWarner

Address: 3800 Automation Ave.
Auburn Hills MI, 48326

Total number of potentially involved: 204

Estimated percentage with defect: 100%

Equipment Information

Brand / Trade 1: Akasol

Model: Gen 3 battery

Part Number: See description

Type:

Function: HV Battery

Size:

Production Dates: Jul 16, 2023 - Aug 08, 2024

Number of potentially involved:

Descriptive Information:

The recall population was determined based on high-voltage battery supplied to Volvo Trucks North America for Volvo and Mack branded vehicles. BorgWarner supplied approximately 138 suspect battery packs, using part numbers P112040200017 and P112040200025.

Brand / Trade 2: Akasol

Model: Gen 3 battery

Part Number: See description

Type:

Function: HV Battery

Size:

Production Dates: Jul 16, 2023 - Aug 08, 2024

Number of potentially involved:

Descriptive Information:

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The recall population was determined based on high-voltage battery supplied to Volvo Trucks North America for Nova Bus branded vehicles.

BorgWarner supplied approximately 21 suspect battery packs, using part numbers P112040200019 and P112040200027.

Brand / Trade 3: Akasol

Model: Gen 3 battery

Part Number: See description

Type:

Function: HV battery

Size:

Production Dates: Jul 16, 2023 - Aug 08, 2024

Number of potentially involved:

Descriptive Information:

The recall population was determined based on high-voltage battery supplied to Cummins Inc. BorgWarner supplied approximately 19 suspect battery packs, using part numbers 102040200012, P102040200010, and P102040200013.

Brand / Trade 4: Akasol

Model: Gen 3 battery

Part Number: See description

Type:

Function: HV battery

Size:

Production Dates: Jul 16, 2023 - Aug 08, 2024

Number of potentially involved:

Descriptive Information:

The recall population was determined based on high-voltage battery supplied to Gillig. BorgWarner supplied approximately 26 suspect battery packs, using part number P102040200012.

Defect / Noncompliance Description

Description of the defect or noncompliance:

According Recall No. 25V055, Volvo Trucks identified a defect as based on manufacturing information from BorgWarner. "Certain VNRE (electric) vehicles may have been built with BorgWarner Akasol Gen 3 batteries which BorgWarner has identified as suspect based upon manufacturing process parameters relative to torque and rework in their factory." Mack Trucks and Nova Bus submitted similar recalls,

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Recall Nos. 25V185 and 25V184 respectively. Following individual notices to Cummins and Gillig of the potential manufacturing issue, each submitted defect information reports to NHTSA: Recall No. 25E018 (Cummins) and Recall No. 25V203 (Gillig).

FMVSS1:

FMVSS2:

Description of the safety risk, including crash, fire, death, injury:

According to Volvo, "Suspect batteries could have incorrectly torqued hardware that may become loose and fall inside the battery. This loose hardware could create short circuits inside the battery cells. A short circuit inside the battery cells may lead to a thermal event and a fire." Mack and Nova Bus described similar risks. Defect notices from Cummins and Gillig also identified potential risk of loss of motive power without adequate warning could increase the risk of a crash.

Description of the cause:

A manufacturing process control for internal fasteners.

Identification of any warning that can occur:

Some vehicle systems may provide a warning indicator on the dashboard or by instrument cluster on the driver information display.

Component Manufacturer

Tier of Supplier:

Supplier Type:

Name: N/A

Address:

Country:

Involved Components

Component Name 1: Gen 3 Akasol HV TCC

Component Description: Terminal connector counterpart (high-voltage terminal connector)

Component Part Number: N/A

Purchaser Information

The following manufacturers purchased this defective/noncompliant equipment for possible use or installation in new motor vehicles or new items of motor vehicle equipment:

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25E035**Name:** Gillig**Address:** 451 Discovery Drive
Livermore CA, 94551**Country:** United States**Name:** Volvo Trucks North America (Volvo Brand)**Address:** 7900 National Service Rd
Greensboro NC, 27409**Country:** United States**Name:** Volvo Trucks North America (Mack Brand)**Address:** 2100 Mack Boulevard
Allentown PA, 18105**Country:** United States**Name:** Volvo Trucks North America (Nova Bus Bra**Address:** 260 Banker Rd
Plattsburgh NY, 12901**Country:** United States**Name:** Cummins Inc.**Address:** 500 Jackson Street
Columbus IN, 47201**Country:** United States

Chronology

Jan. 7, 2025: Volvo reported smoke from a high-voltage battery waiting for installation in a vehicle. The event involved a battery pack manufactured for non-U.S. vehicles and occurred outside the United States. The involved unit was manufactured in Europe for non-U.S. vehicles. There was no reported damage beyond the suspect battery. Jan. – Feb. 2025: BorgWarner worked with Volvo to inspect the incident battery pack and began investigating the issue. Based on manufacturing records and analysis of the incident, BorgWarner identified manufacturing parameters and at its European plant that could have contributed to the TCC issue. Review of data from U.S. manufacturing plant identified similar units supplied to customers for the North America market. Feb. 5, 2025: Volvo submitted defect information reports (Recall Nos. 25V055) for suspect units produced at BorgWarner's U.S. plant. Approx. Feb. 14, 2025: BorgWarner notified Cummins and Gillig of the non-U.S. incident and units supplied to each customer within the suspect manufacturing parameters. Apr. 14, 2025: NHTSA's Recall Management Division contacted BorgWarner regarding customer information related to Recall Nos. 25V055, 25V184,

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25V185, 25E018, and 25V203. Apr. 22, 2025: BorgWarner reviewed the defect information reports submitted by these manufacturers to NHTSA. In accordance with 49 CFR 573.3(f), BorgWarner is submitting this defect information report. BorgWarner is not aware of any reported injuries or crashes related to this condition.

Related NHTSA Recall Number:

Description of Remedy

Remedy Type:

Consumer Advisories: ☐ Do Not Drive ☐ Park Outside

Description of remedy program:

BorgWarner is not conducting a recall of its products, but is providing this information report in accordance with 49 CFR Part 573.3(f). BorgWarner has already notified its customers of the issue. BorgWarner sold all affected units as original equipment. The vehicle manufacturers or Tier 1 supplier will determine appropriate steps for affected units. Eligibility for reimbursement for prior repair will be determined by the respective manufacturers conducting the recalls.

How remedy component differs from recalled component:

BorgWarner is working with its customers to identify vehicles equipped with suspect battery packs to inspect and repair affected units as necessary.

Identify how/when recall condition was corrected in production:

On approximately August 8, 2024, BorgWarner revised manufacturing parameters and processes to prevent overstress of the TCC. In February 2025, BorgWarner implemented a new high-voltage terminal design.

Reimbursement Plan

Description of reimbursement program:

Period of reimbursement:

Costs to be reimbursed:

Address for reimbursement claims:

Recall Schedule

Part 573 Safety Recall Report**25E035****Description of recall schedule:**

BorgWarner is not conducting a recall of these products. The remedy schedule will be determined by each manufacturer that conducts a recall, and any quarterly and annual recall completion reports will be submitted by those manufacturers.

Planned Dealer Notification Date: May 23, 2025 - May 23, 2025☐ No Dealers**Planned Interim Owner Notification Date:**☒ No Owners**Planned Remedy Owner Notification Date:**☐ Phased Recall